

PATIENT

- PATID: VARCHAR(20)
- SOURCE: VARCHAR(20)
- STUDY_CODE: VARCHAR(20)
- CENTER_CODE: VARCHAR(20)
- ORIG_PATID: VARCHAR(20)
- GENDER: VARCHAR(20)
- RACE: VARCHAR(20)
- DGNOST: DATE
- IRTH: DATE
- IRST_ART: DATE
- IRTH: DATE
- PREVIOUS_PLV: VARCHAR(20)
- PREVIOUS_NRTI: VARCHAR(20)
- PREVIOUS_NNRTI: VARCHAR(20)
- PREVIOUS_ENVL: VARCHAR(20)
- PREV_A1_DURATION: NUMBER
- PREV_A1_DURATION: NUMBER
- PREV_NNRTI_DURATION: NUMBER
- PREV_ENVL_DURATION: NUMBER
- BASELINE: DATE
- END DATE: DATE
- REGON BRO OUT: VARCHAR(20)
- STATUS_CODE: VARCHAR(20)
- LOAD_DATE: DATE

PHENO

- PATID: VARCHAR(20)
- VIRCO_ID: VARCHAR(20)
- SAMPLING_DATE: DATE
- SOURCE: VARCHAR(20)
- STATUS_CODE: VARCHAR(20)
- LOAD_DATE: DATE

VIRAL

- PATID: VARCHAR(20)
- VIRAL_LOAD: DATE
- VIRAL_LOAD: NUMBER(0)
- SOURCE: VARCHAR(20)
- BELOW_DETECT_LIMIT: NUMBER(0)
- ABOVE_DETECT_LIMIT: NUMBER(0)
- LOWER_DETECT_LIMIT: NUMBER(0)
- UPPER_DETECT_LIMIT: NUMBER(0)
- ASSAY: VARCHAR(20)
- ASSAY_VERSION: VARCHAR(20)
- STATUS_CODE: VARCHAR(20)
- LOAD_DATE: DATE

ART

- PATID: VARCHAR(20)
- DRUG_GENERIC_NAME: VARCHAR(20)
- ART_START_DATE: DATE
- DRUG_PREFERRED_NAME: VARCHAR(20)
- DRUG_TRADE_NAME: VARCHAR(20)
- SOURCE: VARCHAR(20)
- ART_STOP_DATE: DATE
- DRUG_FORMULATION: VARCHAR(20)
- DRUG_DOSE_DAILY: NUMBER(0)
- DRUG_DOSE_INTAKE: NUMBER(0)
- DRUG_FREQUENCY: VARCHAR(20)
- DRUG_UNIT: VARCHAR(20)
- DRUG_ABBREVIATION: VARCHAR(20)
- STATUS_CODE: VARCHAR(20)
- LOAD_DATE: DATE

CENTER

- CENTER_CODE: VARCHAR(20)
- STUDY_CODE: VARCHAR(20)
- CENTER_CONTACT: VARCHAR(20)
- CENTER_COUNTRY: VARCHAR(20)
- SOURCE: VARCHAR(20)
- LOAD_DATE: DATE

STUDY

- STUDY_CODE: VARCHAR(20)
- STUDY_NAME: VARCHAR(20)
- STUDY_TYPE: VARCHAR(20)
- STUDY_VIRCO_CONTACT: VARCHAR(20)
- SOURCE: VARCHAR(20)
- LOAD_DATE: DATE

TABLE

- TABLE_ID: VARCHAR(20)
- STATUS_CODE: VARCHAR(20)
- STATUS_DESCRIPTION: VARCHAR(20)
- SUD_DESCRIPTION: VARCHAR(20)
- SUD_STATUS: VARCHAR(20)
- ENRILIB: VARCHAR(20)
- LOAD_DATE: DATE

PHENO

- PATID: VARCHAR(20)
- VIRCO_ID: VARCHAR(20)
- SAMPLING_DATE: DATE
- ORIG_GENERIC_NAME: VARCHAR(20)
- ORIG_TRADE_NAME: VARCHAR(20)
- ART_START_DATE: DATE
- ART_TIME_LAST_DOSE: NUMBER(0)
- DRUG_FORMULATION: VARCHAR(20)
- DRUG_DOSE_DAILY: NUMBER(0)
- DRUG_DOSE_INTAKE: NUMBER(0)
- DRUG_FREQUENCY: VARCHAR(20)
- DRUG_UNIT: VARCHAR(20)
- DRUG_CONCENTRATION: NUMBER(0)
- RITONAVIR_POSTDOSE: NUMBER(0)
- RITONAVIR_POSTDOSE: NUMBER(0)
- RITONAVIR_FREQUENCY: VARCHAR(20)
- SOURCE: VARCHAR(20)
- STATUS_CODE: VARCHAR(20)
- LOAD_DATE: DATE

Figure 1a:

$$\text{LogVL drop}_i = \beta_0 + b_1 * \text{Baseline Log(VL)}_i + \beta_2 * \text{PSS}_i + \beta_3 * (\text{FC})_i + \xi_i$$

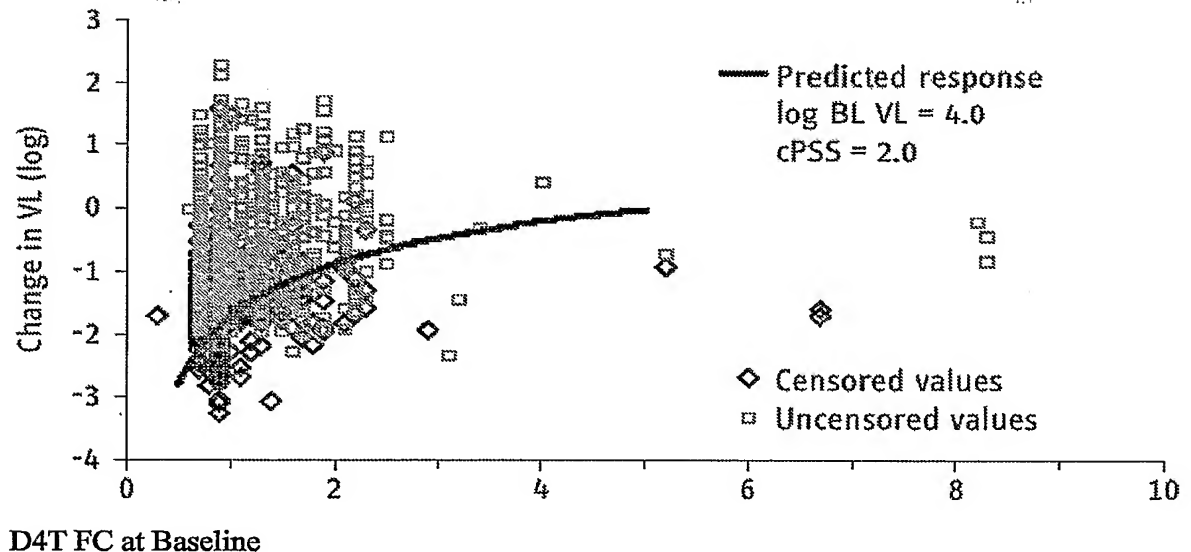


Figure 1b:

2/17

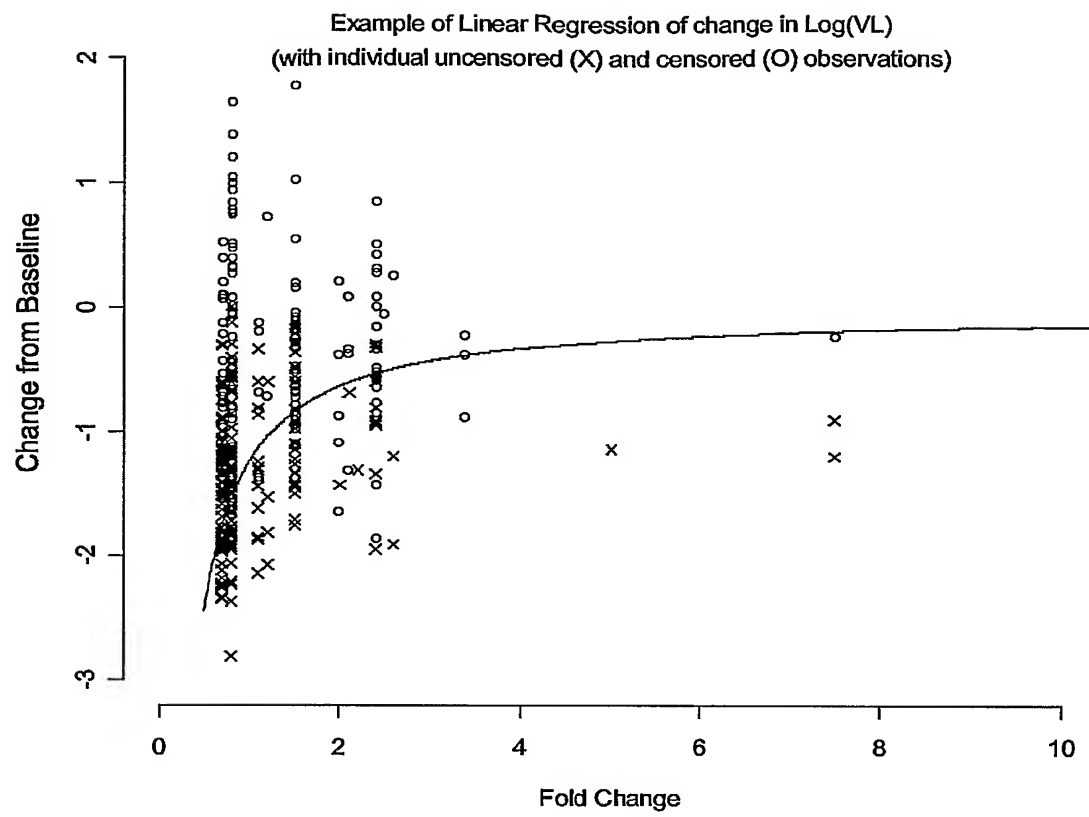


Figure 2a:

3/17

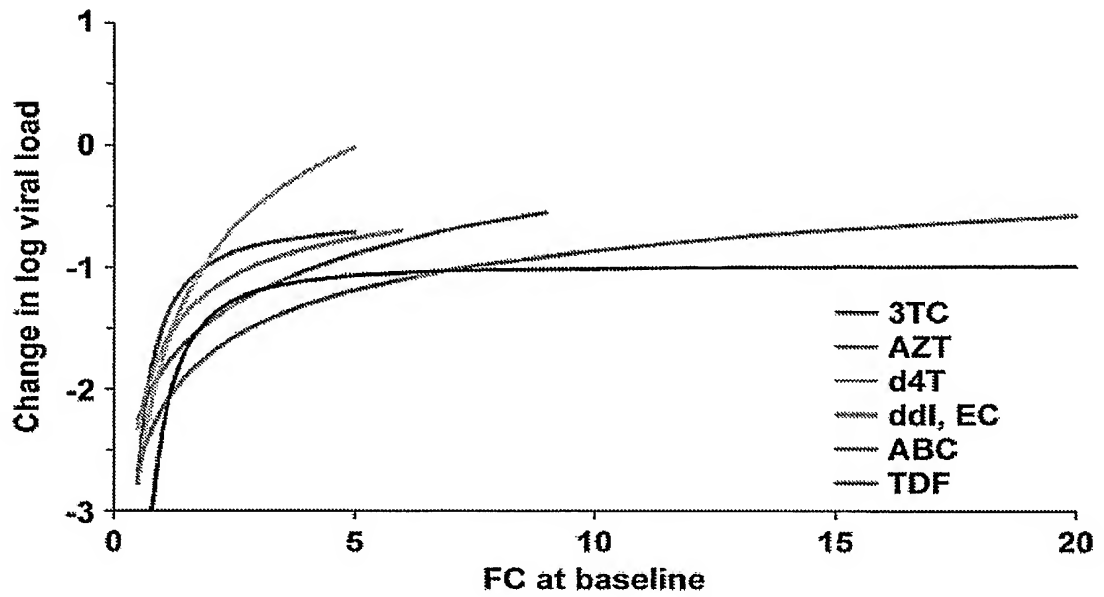


Figure 2b:

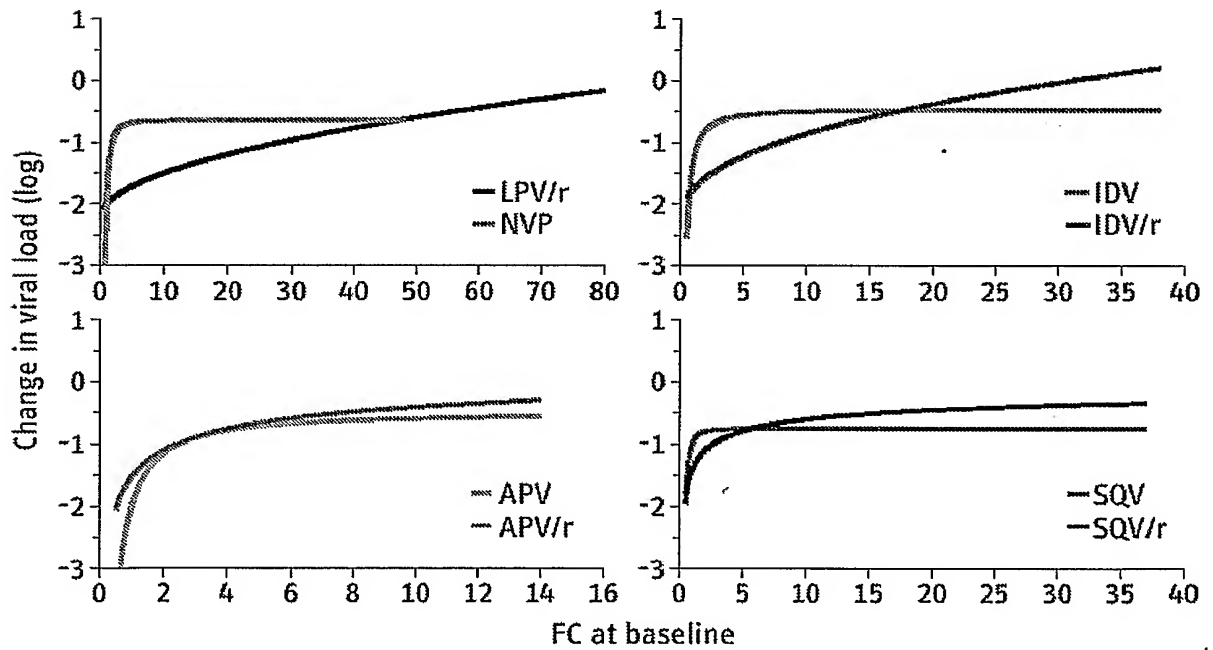


Figure 2c:

4/17

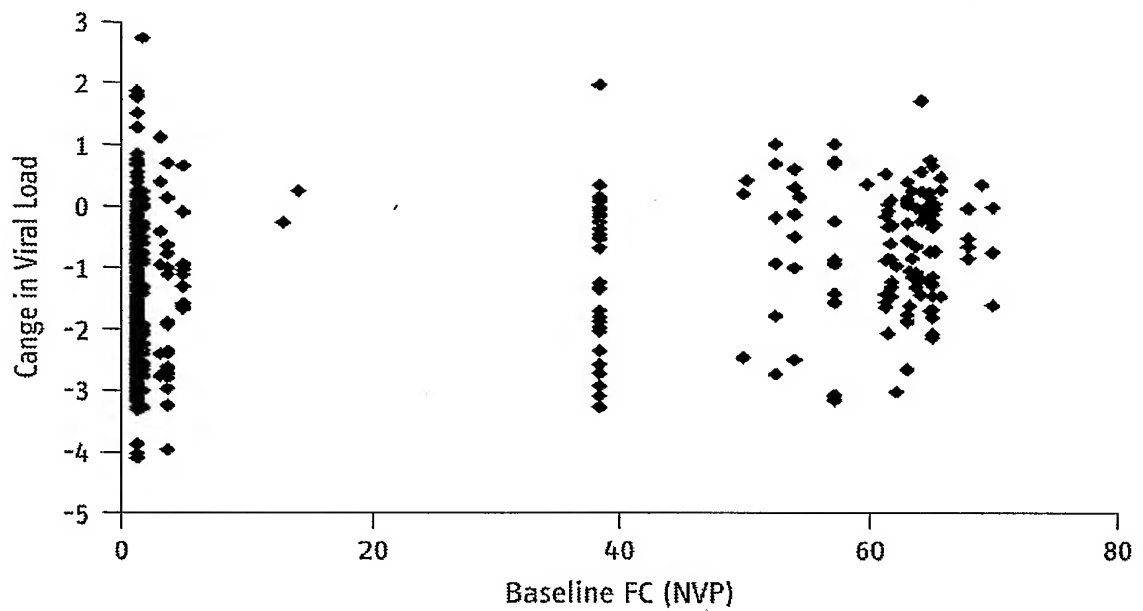


Figure 2d:

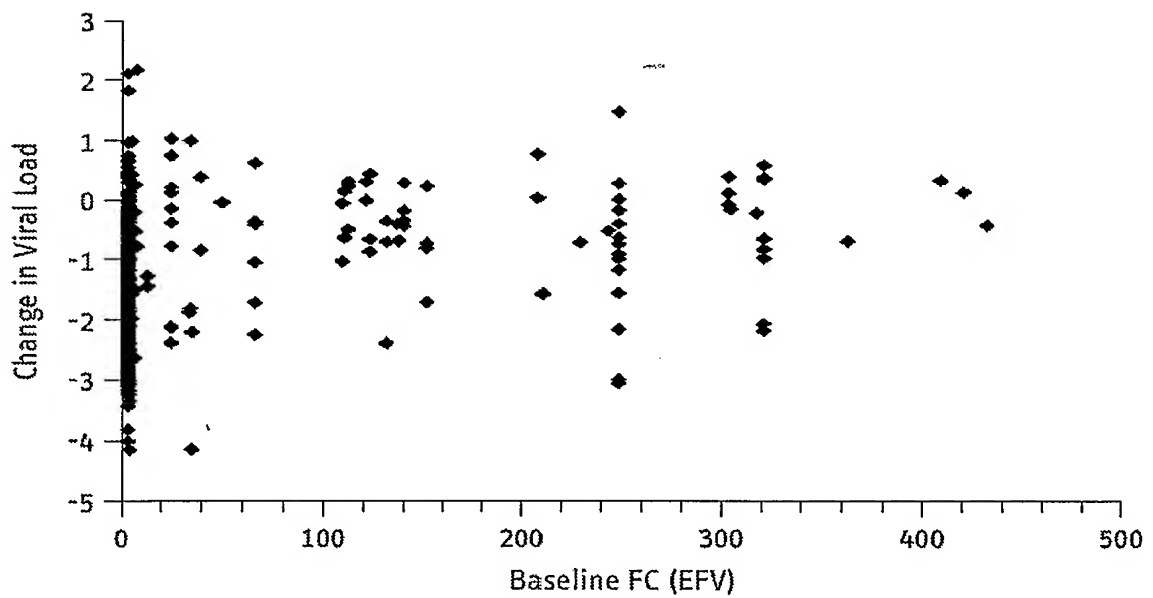


Figure 2e:

5/17

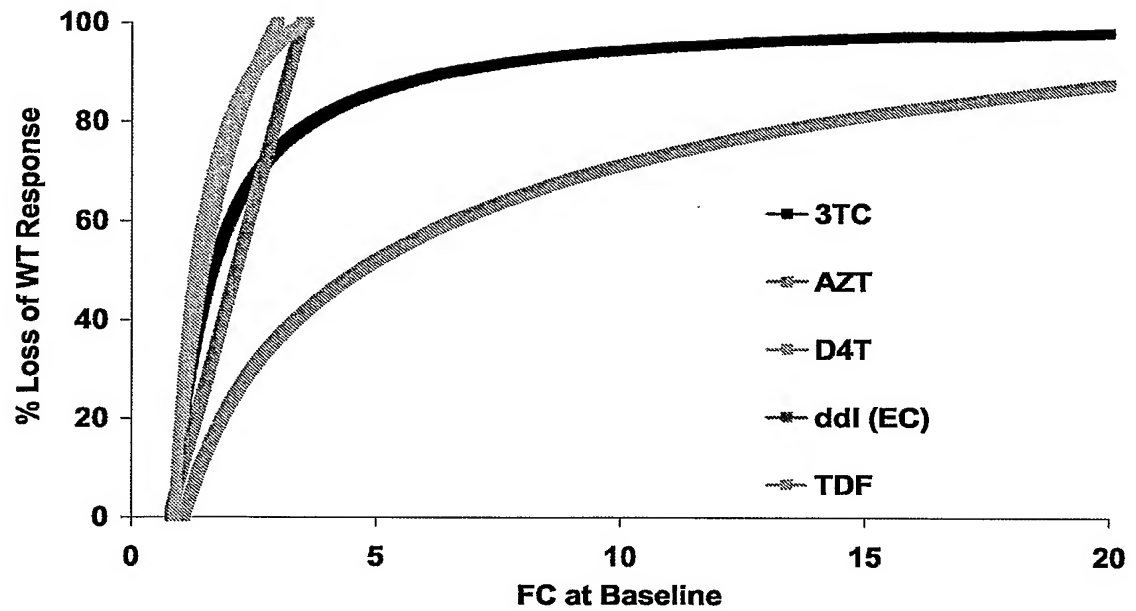


Figure 2g

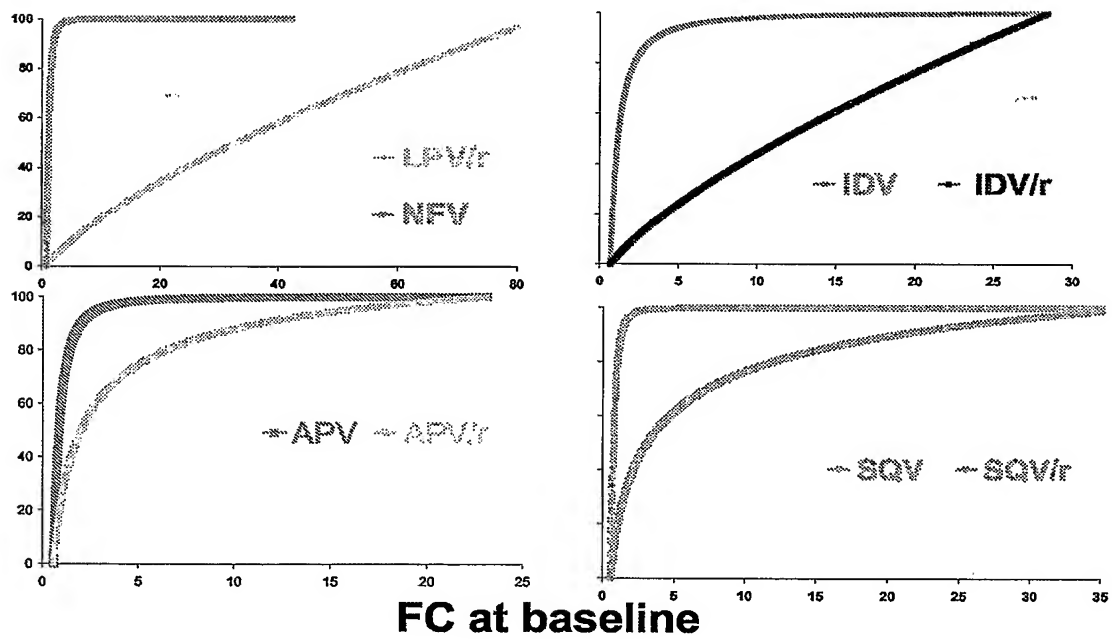


Figure 2f

6/17

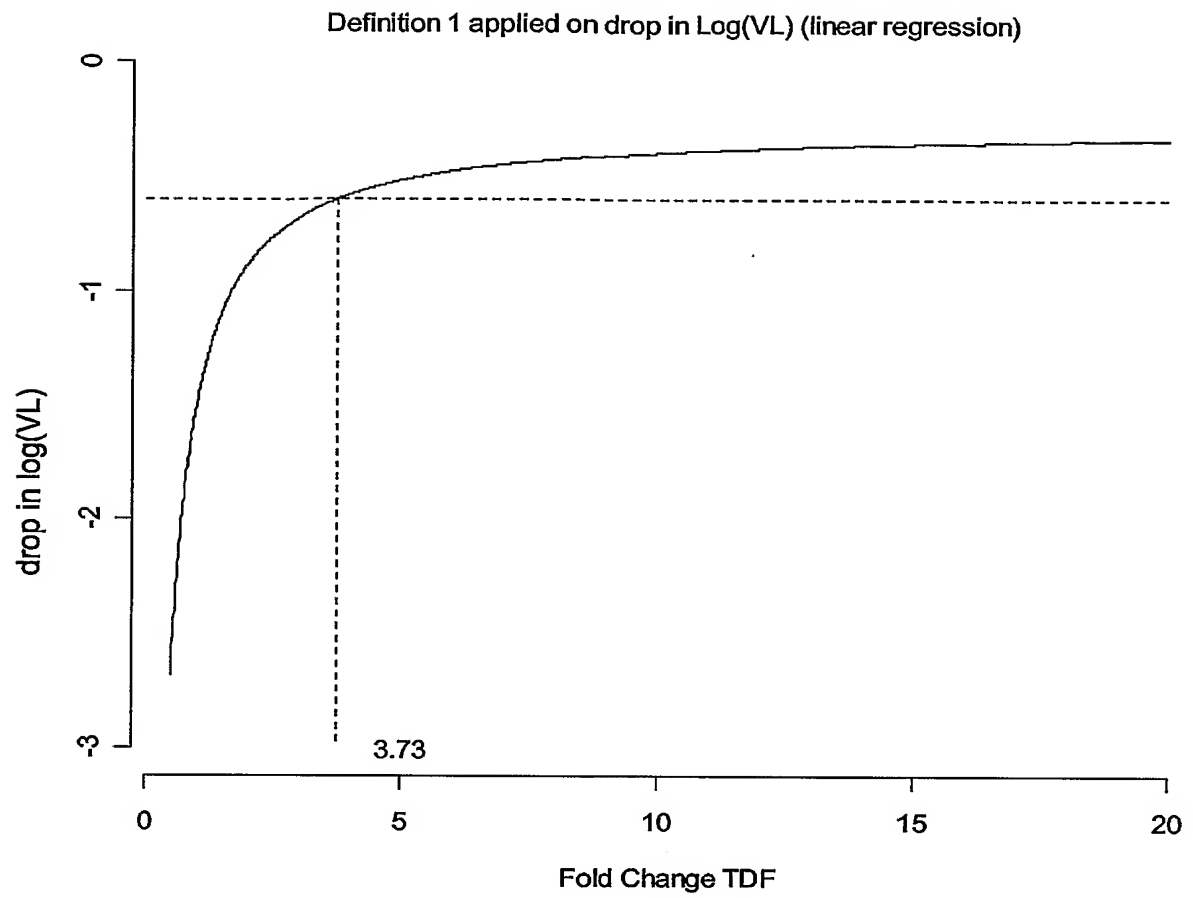


Figure 3a:

7/17

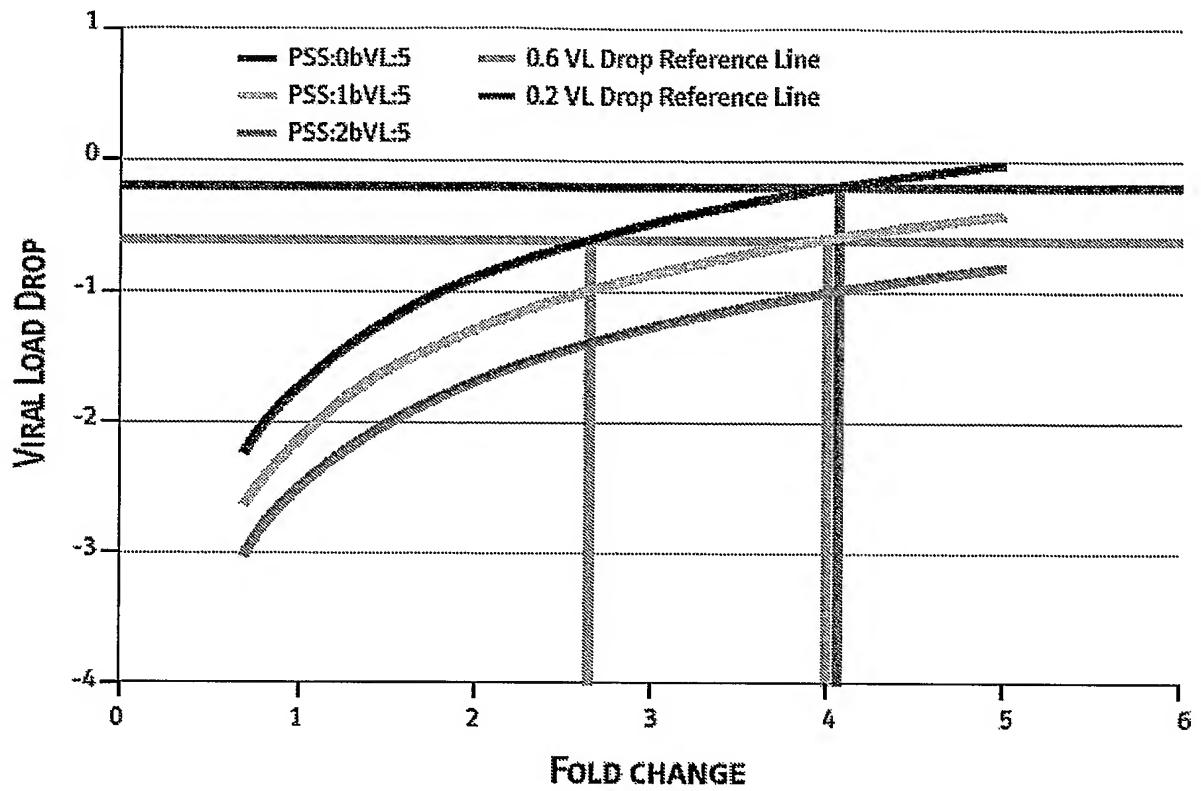


Figure 3b:

8/17

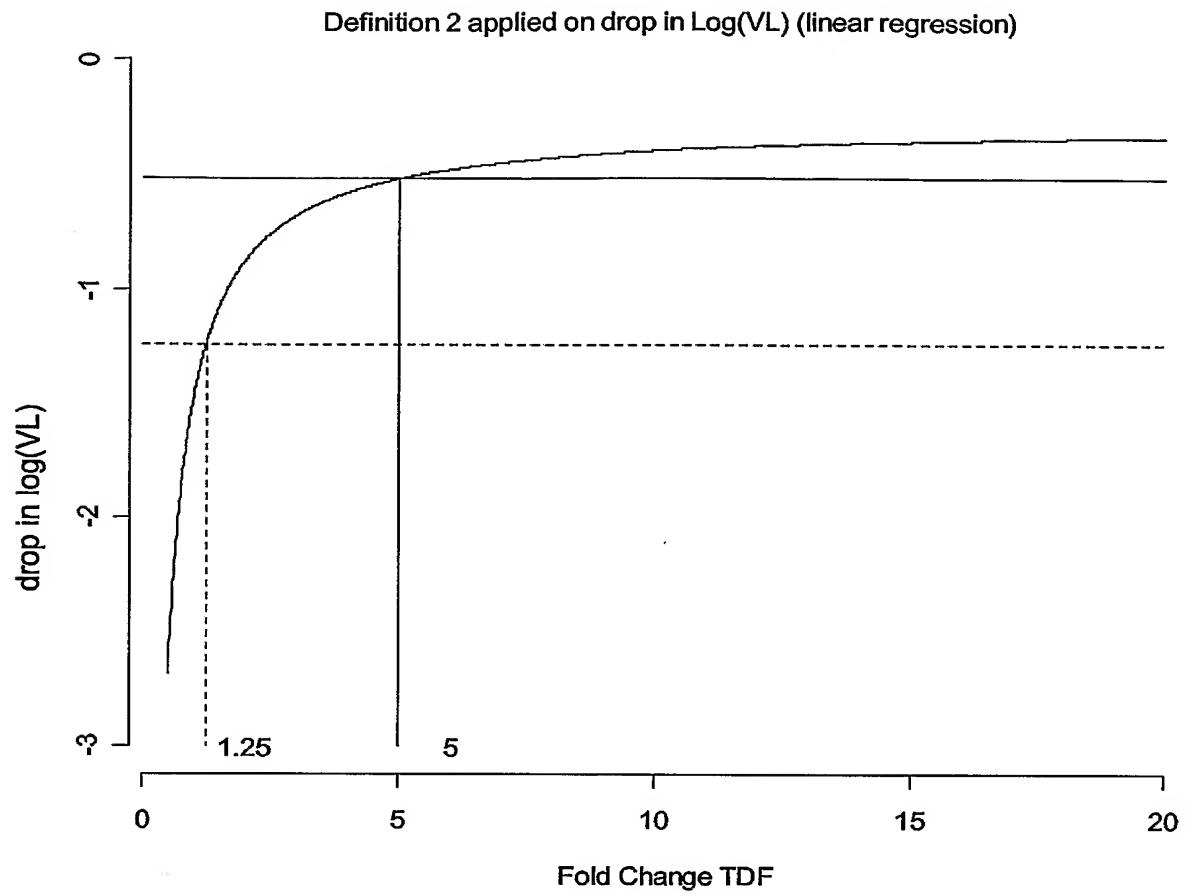


Figure 4a:

9/17

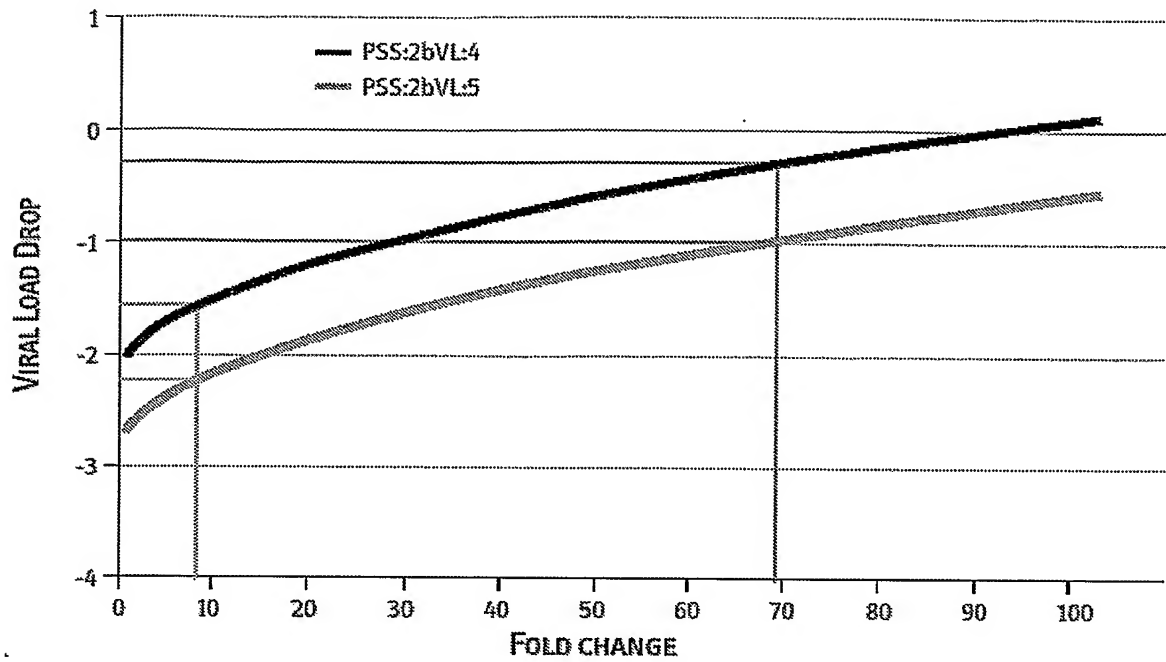


Figure 4b:

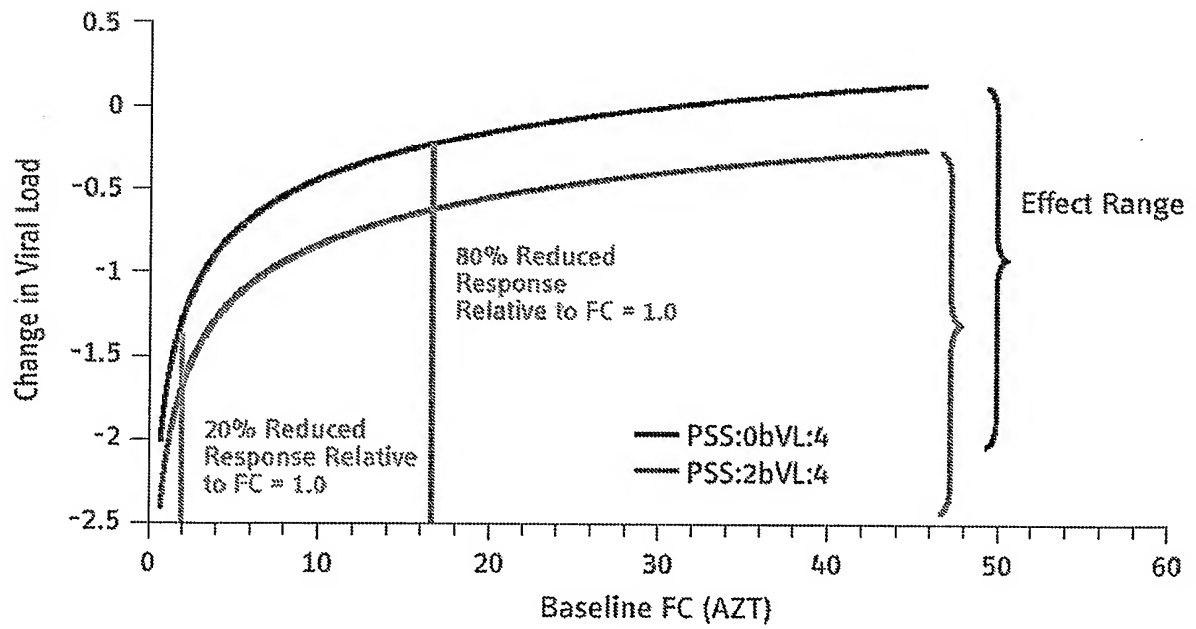


Figure 4c:

10/17

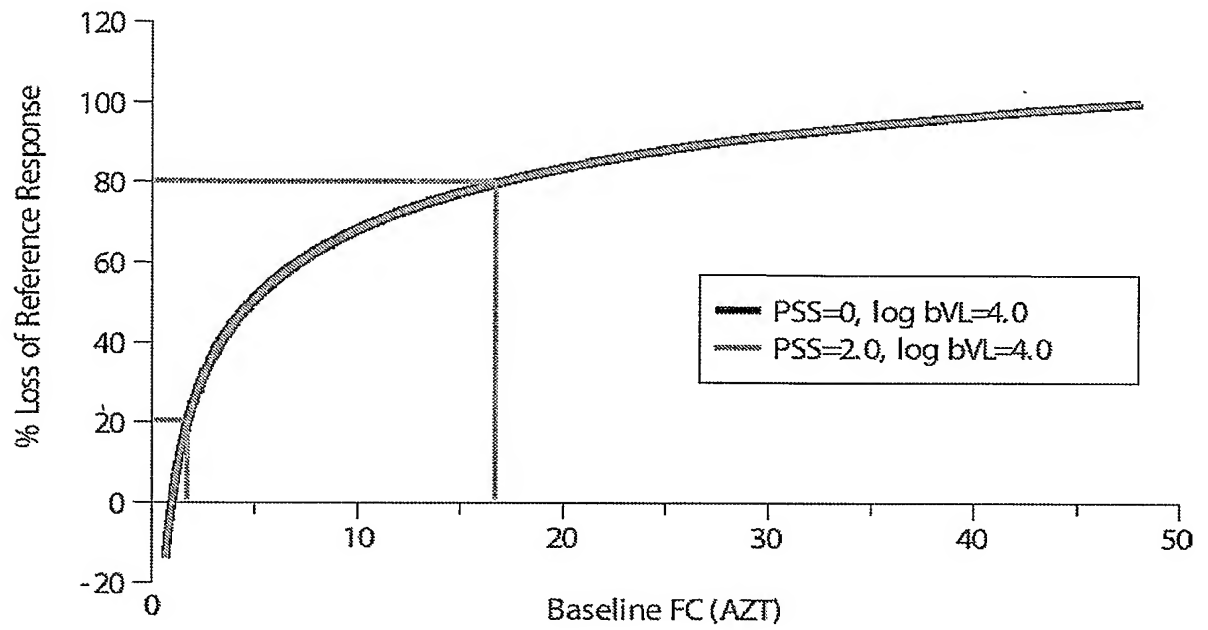


Figure 4d:

11/17

Definition 2 applied on the probability of failure ($=1/\text{Probability of success}$) (logistic regression)

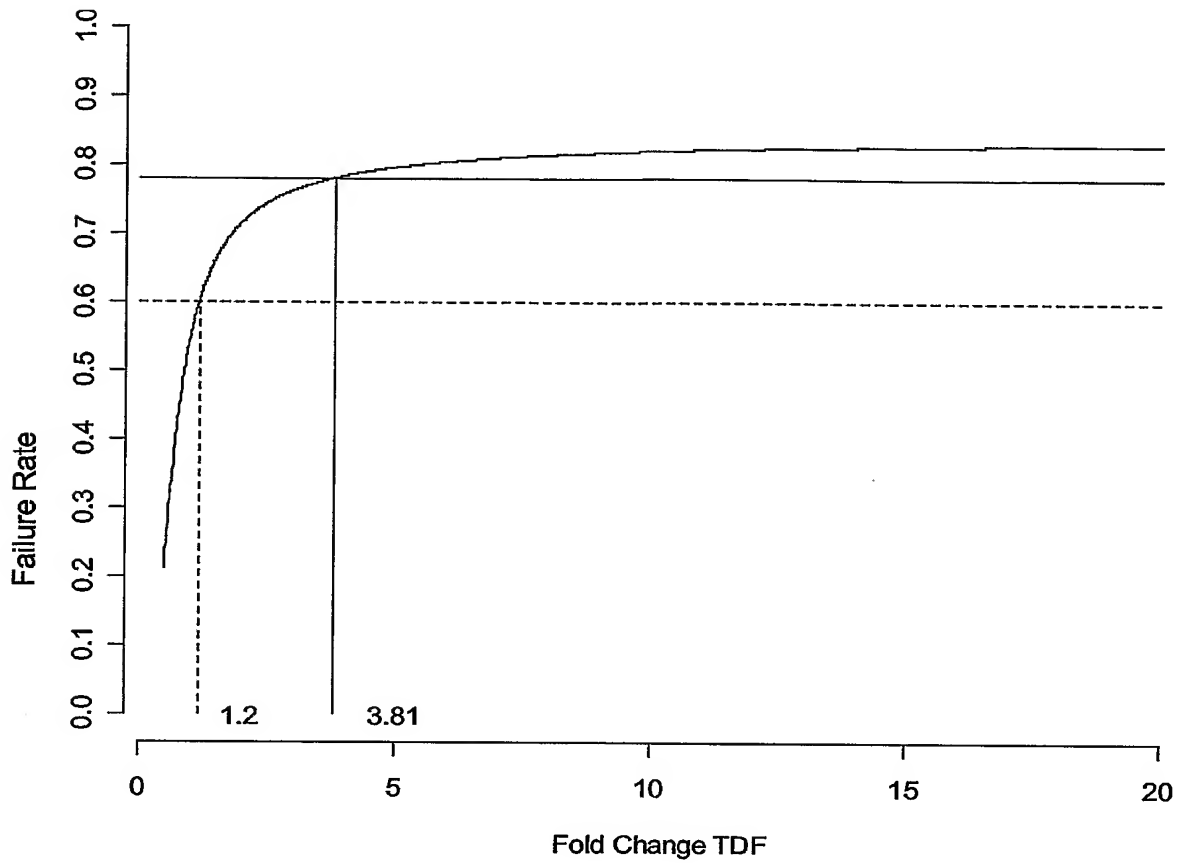


Figure 5a:

12/17

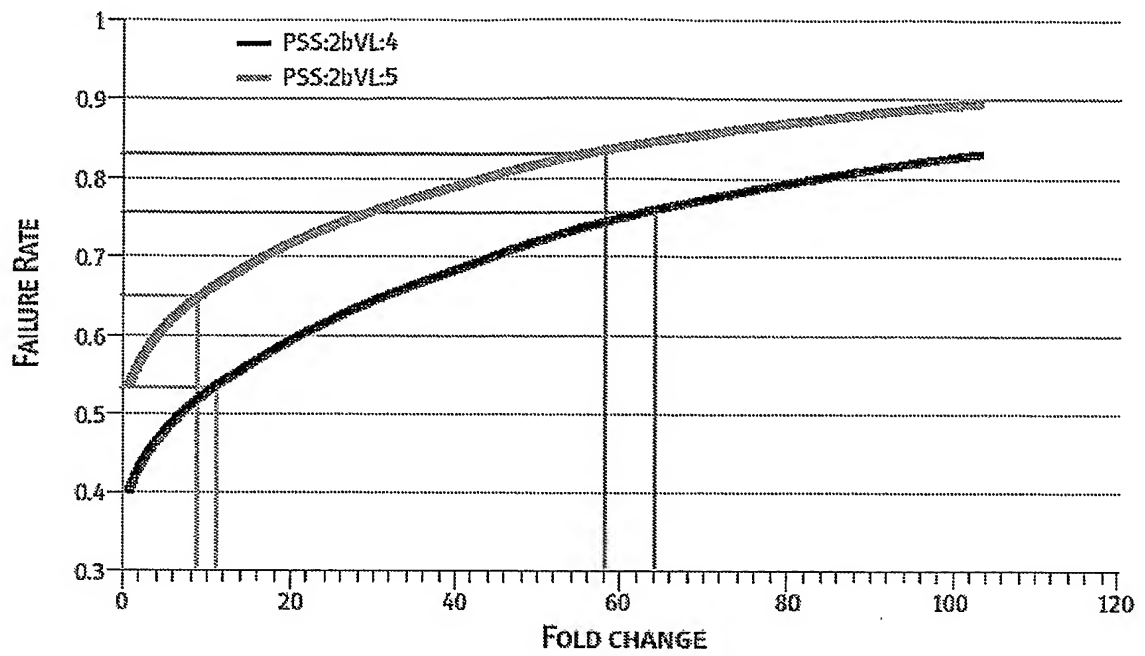


Figure 5b:

13/17

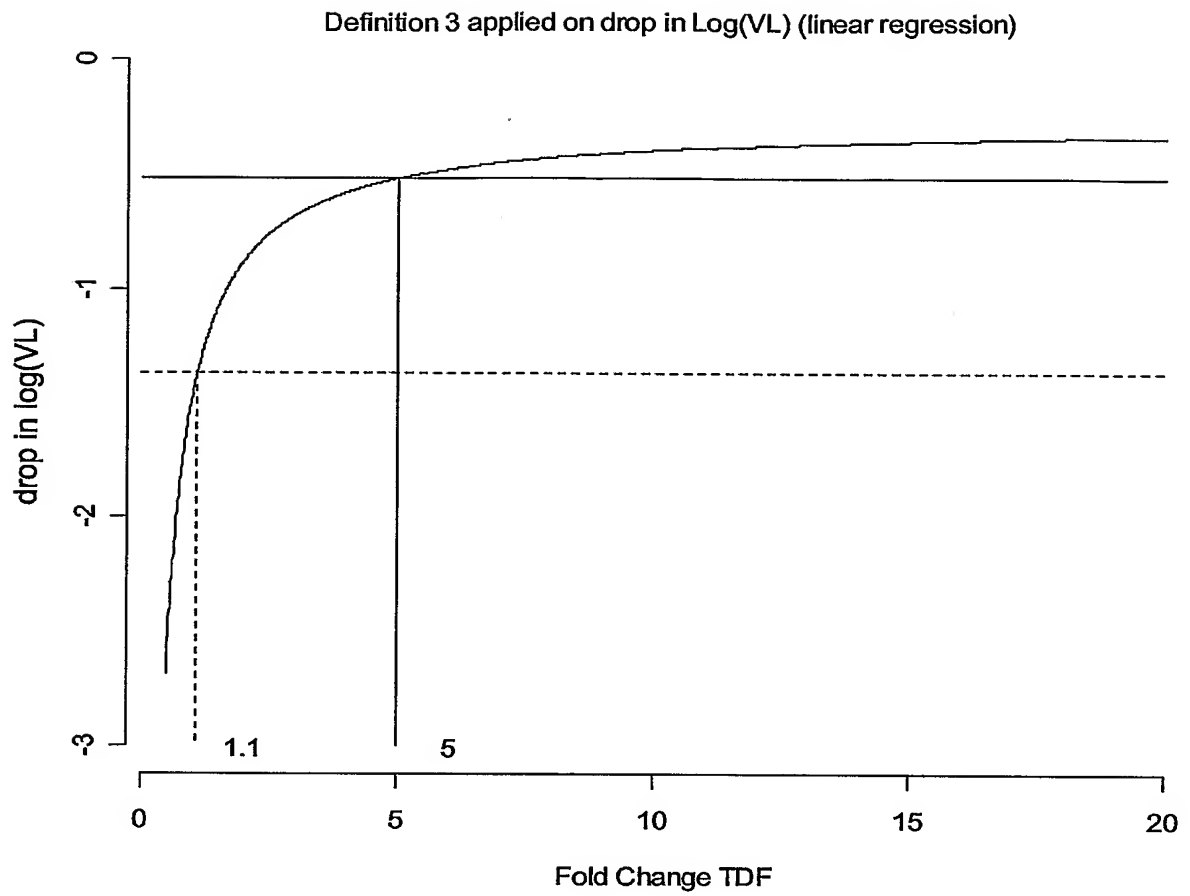


Figure 6

14/17

Definition 3 applied on the probability of failure ($=1/\text{Probability of success}$) (logistic regression)

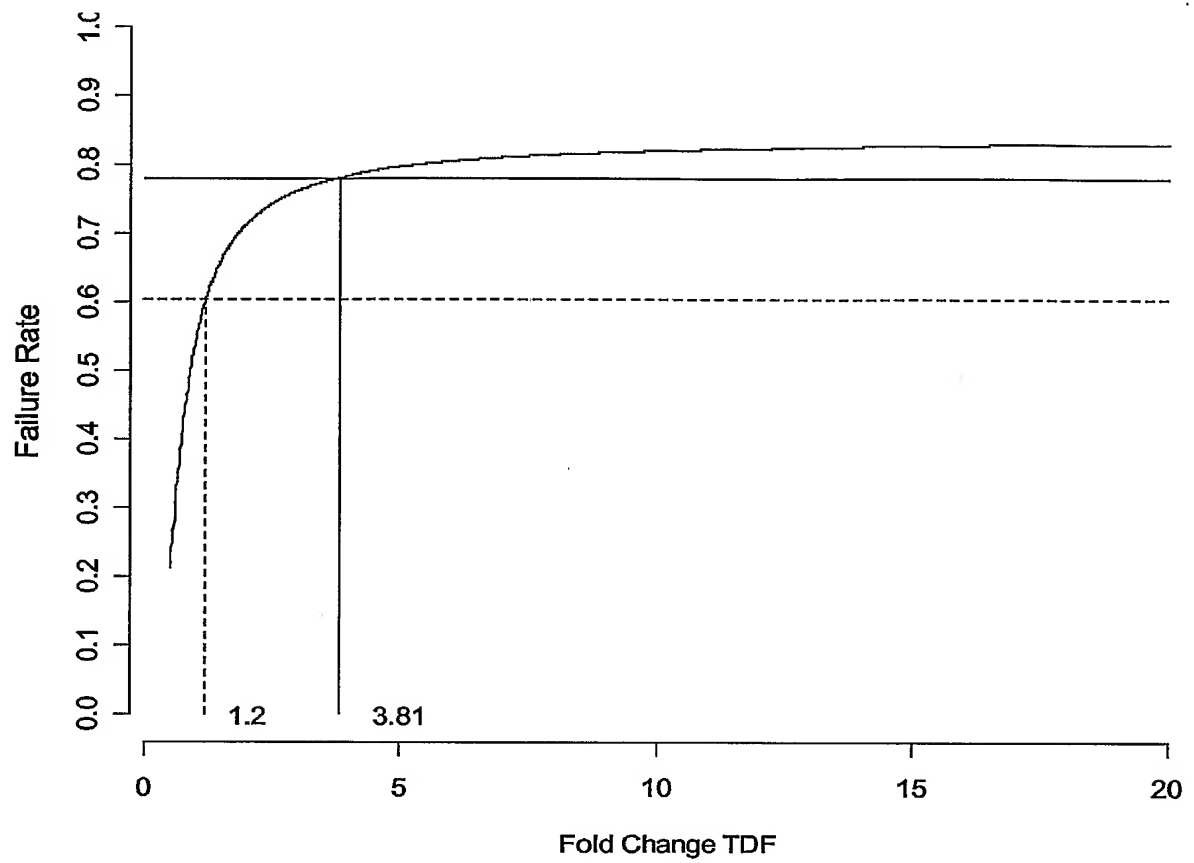


Figure 7

15/17

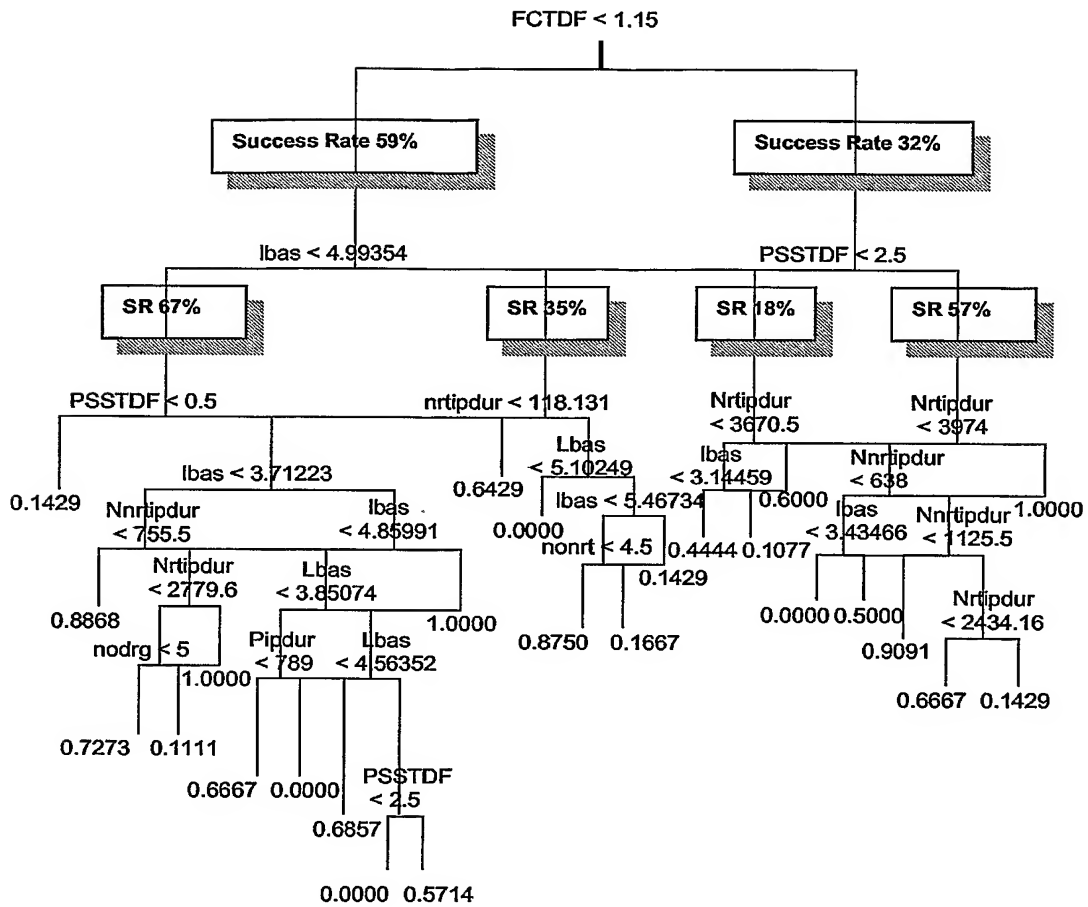


Figure 8a:

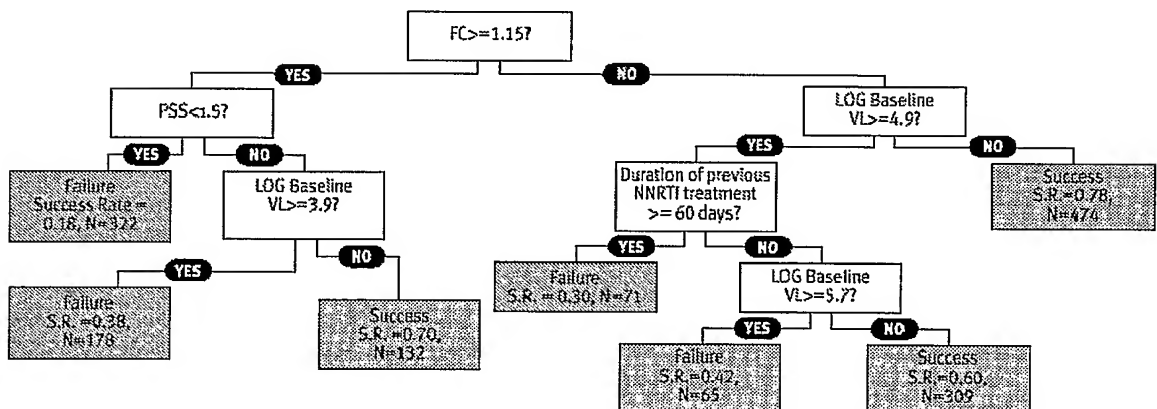


Figure 8b:

16/17

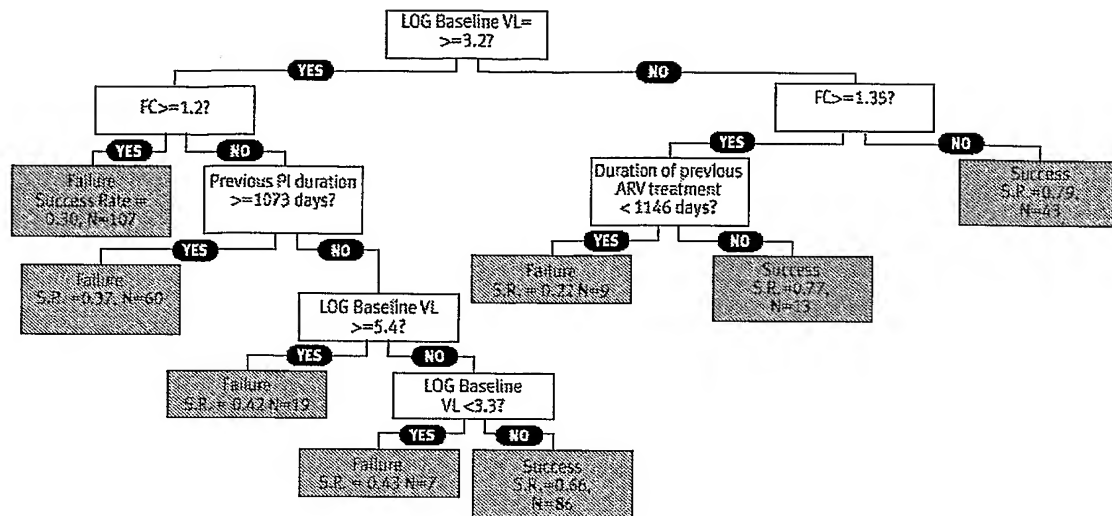


Figure 8c:

17/17

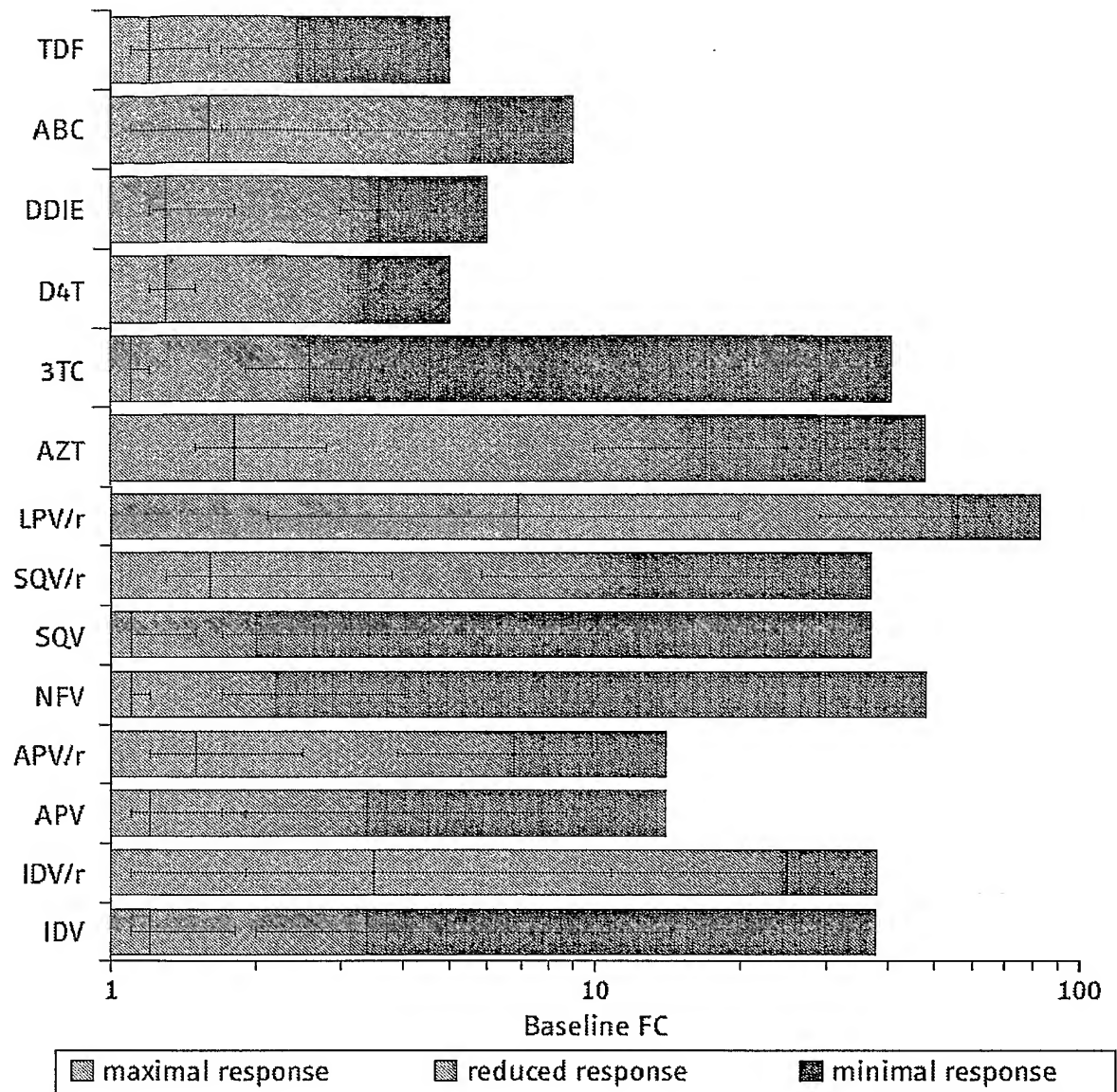


Figure 9: